



CONSTRUCTION EQUIPMENT

ALAMEDA COUNTERS VOLVO L120H 632652 - DIESEL ENGINE



Sample No: VCP439438
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: ALAMEDA COUNTERS



SAMPLE INFORMATION

Sample Number	VCP439438	VCP369647	VCP335303	VCP293651
Sample Date	01 Apr 2024	09 Jun 2023	09 Mar 2022	30 Apr 2021
Machine Hours	16909	13632	8719	4712
Oil Hours	0	0	1902	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	ABNORMAL	NORMAL	ABNORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	14.0	13.4	13.3	13.02
Base Number (BN)	mg KOH/g	6.0	9.6	6.7	---
Oxidation (PA)	%	106	90	122	114



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1	0.4	0.4	0.7
Nitration (PA)	%	106	79	98	88
Sulfation (PA)	%	75	65	77	75
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	▲ 34	18	▲ 29	20
Sodium	ppm	4	3	2	3
Potassium	ppm	2	0	2	<1



WEAR METALS

Iron	ppm	64	23	33	25
Copper	ppm	5	2	4	6
Lead	ppm	5	3	8	5
Tin	ppm	<1	<1	1	2
Aluminum	ppm	● 31	14	● 20	20
Chromium	ppm	2	<1	1	2
Molybdenum	ppm	53	52	48	40
Nickel	ppm	1	0	0	<1
Titanium	ppm	1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1921	1947	1901	1643
Magnesium	ppm	633	591	550	490
Zinc	ppm	1243	1242	1238	1135
Phosphorus	ppm	995	1009	962	917
Barium	ppm	0	0	0	0
Boron	ppm	20	33	22	53

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO4487
Unique No: 10963163
Signed: Don Baldrige
Report Date: 06 Apr 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

